



COLORADO SPRINGS,
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NOVEMBER 1990



PIKES PEAK RADIO AMATEUR ASSOCIATION, INC.
P.O. Box 16521
Colorado Springs, CO 80935

FIRST CLASS MAIL



Ø BEAT



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* Denotes first year of a two year term.

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The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at the Elks Lodge, 5400 North Nevada Ave., at 7 PM.

EDITOR: Ron Deutsch NKØP 4305 Ridgeline Drive, Colorado Springs, Colorado 80918 (719) 593-8352. Electronic data transfer by appointment.

MESSAGE FROM THE PRESIDENT . . .

Well, this is the first column I'm writing to you as President of the PPRAA, continuing in the tradition of past presidents. I'll be writing this column to you each month trying to convey to you some of the more important messages about the club and its activities. This month there are two things I want to say which either have affected or will affect us all as members of the PPRAA.

The first is that, on behalf of everyone in the club, I must express thanks to Rick, WB7THT, our immediate past president for his contributions to the club during his term as president. He actually served as president for over a year since taking over when Keith, NYØT, left to return to Canada. Rick not only served as president but also did much of the work to set up the club's annual swapfest last May. I've also seen in the past year what many people don't realize, just how much the president does behind the scenes. I only hope I will be able to follow Rick's example and continue to help make our club a success.

The second thing I must say is less pleasant but equally important. I know many of you have made significant contributions to the running of the club in the past, many of you long before I came here. But we are running short of help. We urgently need three people to come forward to fill roles critical to the continued success of the club:

We need someone to head up a committee to organize our next swapfest. Contrary to popular belief, the swapfests do not organize themselves and it takes several people to participate. Many have said they will help, but it needs one person to run that operation. There have already been a number of

questions raised concerning whether we need a new site for our swapfest. Most swapfests charge a small entry fee, but we are unable to do that at this location. Also, we totally filled the Rustic Hills Mall last year, so if we want more tables and more vendors, we really need a bigger facility. So if anyone knows of such a place which can guarantee us the space in advance (space in empty stores and shopping centers are always subject to sale), then please let one of the board members know. And we still need that one person to head up the swapfest committee...

We are also still looking for someone to head up the VE testing. Max, KDØEL, has done an outstanding job for us in the past, but it's time for him to move on and for someone else to take over. As he pointed out at the last general meeting, the VE testing is one of the most critical tasks our club performs. It is the ONLY way we can get new hams to propagate the hobby we all love so much.

And finally we also need a new publicity manager. We have been missing many opportunities to publicize our club and it wouldn't take much to do the job well. But it does need someone who is dedicated to doing it right.

I know this sounds somewhat negative for a new president's first column, but facts are facts and I intend to face up to them. We need help badly if the club is to continue to be successful and only you, the members, can provide that help. So please seriously consider coming forward to help and also encourage others to pitch in and do their part. Let's all work together to make our club the best there is.

73, Dave, NØION

PPRAA GENERAL MEETING

OCTOBER 10, 1990

The monthly meeting was called to order by Rick, WB7THT, at 7pm. Each of the 40 members and guests introduced themselves and told of hobbies other than amateur radio they were involved in. Minutes of the previous meeting were approved and committees reports followed.

Rosie, WA0MNL, reported income to the treasury of \$77.00 and expenses of \$280.00 leaving a balance of \$2593.79.

Jeff, N0JLH, reported one incident of interference. The FCC had also been notified before the RFI committee had a chance to investigate. The problem apparently had gone unreported for quite some time. More information will be forthcoming.

Max, KD0EL, had indicated he would like someone to take over the VE committee chair. Volunteers can contact him or a board member. Max indicated he would assist the new person in learning the ropes.

Ron, NK0P, would like new articles for O-Beat. Cartoons and puzzles are also accepted.

Steve, WB7VHR, reported the club trailer is now stored in town making it somewhat more accessible.

There were no reports from CCARC, ARES, or Public Service committees at this time.

In old business, Hal, W0MXY, reported the tower ordinance his group had so diligently working on with the county was passed on a unanimous vote. The ordinance will now go before the county commissioners sometime in November. While not perfect, much of the wording objectionable to the hams was altered or deleted due to the efforts of Hal's group. Members offered their appreciation with a round of applause.

ELECTION RESULTS:

The following were elected to positions in the PPRAA:

Dave, N0ION-----President
Harv, WA6YXD---Vice-President
Mark, N0EPF-----Secretary
Rosie, WA0MNL---Treasurer
Jeff, N0JLH-----Board member
Russ, KB0FNM-----Board member

In other business, Al, N0CMW, reported CW Electronics is now completely closed and has returned to Denver. Ham activities have been taken over by the Denver facility of HRO on Illif Blvd.

It was noted that hams ordering from an in-state outlet now have to pay sales tax.

After the break, raffle prizes went to the following people:

Oak, K0ROL-----Knife set
D.J., KD0NB-----Can of chiller
George, WD0K-----Village Inn meal
Rob Spence-----Tie wraps
Rod, KA5DBO-----Blue LED (yes blue)
Tom, W2TGO-----Yaesu hat
George, N8CTX-----OEM gift certificate
Rob Spence-----OEM gift certificate
(Editors note: The OEM gift certificates are from the estate of KD0VM, Brad Bradley)

The guest speaker was Frank Luciani, KA0ZGR, director of the El Paso County Disaster Service. He presented a historical background and brought the members up to date on current events, training plans, and future plans for the system. He indicated warm regard for the local hams and desire to keep them involved--"we want to keep the link between the amateur radio community and civil defense alive..."

Before adjournment, Ron and Rosie agreed to explore using the ELK's club for the Christmas party which will be held in conjunction with the regular club meeting in December.

The meeting was adjourned at 8:36 pm.

The next regular club meeting will be November 14, 1990 at the Elk's club. Please see details elsewhere in O-Beat.

Respectfully submitted,
Mark, N0EPF

NEW CALL SIGNS FROM GETTYSBURG

Here are the latest Amateur Radio call signs issued by the FCC, as of the first of October:

Area	Extra	Adv.	Tech/Gen	Novice
0	AA0BZ	KF0MW	N0MLS	KB0HOR
1	WK1F	KC1WY	N1IAV	KA1WLE
2	AA2BI	KE2WH	N2LGM	KB2LEZ
3	WE3T	KD3TW	N3IOB	KA3WXD
4	AB4ZC	KN4PF		KC4TGW
5	AA5UU	KI5JP	N5RJM	KB5NUY
6	AA6YE	KK6QF		KC6ODO
7	AA7GI	KG7IS	N7POH	KB7LRZ
8	AA8CG	KF8JJ	N8MXY	KB8KSH
9	WV9Q	KE9ZF	N9KDV	KB9FNS
Hawaii		AH6KP	NH6XP	WH6CJC
Alaska		AL7MK	NL7UZ	WL7BZK

SECRETARY'S CORNER

My name is Mark Richardson, N0EPF and I have been elected as your new secretary. It was thought to be helpful if you knew something about me. Currently, I am an educator at Horizon School. My background is in educational technology (computers). Teaching has been a 17 year career, however, my desire is to change careers but remain in the training, support, or management field.

My membership in the club began in 1980 which is when I obtained my ham license. My interests run to contesting, county hunting, DX, and public service. I am a member of our local ARES group. Previously, I served as secretary of the club until graduate school began to interfere and am now pleased to be able to serve the club again. My shack consists of an ICOM-735 with a Mosley TA-33 on a 40 foot tower plus an all band dipole at about 20 feet. Being near the top of the hill at Palmer Park and Academy makes for an ideal situation. Now all that's needed is to figure out how to beat K0RF in the contests.

My family is four: Stephanie-my wife, Tim- 7 and in the 2nd grade at Mark Twain, and Kim- 18 a freshman at Kearney State College in Nebraska. Kearney will be part of the University of Nebraska next year. Imagine my dilemma- a CU man with a daughter going to a NU campus! (oh the shame.) It is my hope to serve the club well and faithfully. Please contact me if you have any concerns, needs, requests, etc. involving the duties of secretary.

73's ... Mark



BOARD MEETING MINUTES

OCTOBER 15, 1990

The regular meeting of the PPRAA was called to order by Dave, N0ION at 7:13 pm in the home of Rosie, WA0MNL.

Present were: Dave , Rosie, Lauren KX0O, Ron NK0P, Jeff N0JLH, Russ KB0FNM, Renee KA0ROY, A' N0CMW, and Mark N0EPF.

First discussion centered on the Christmas party in terms of menu, price , times, entertainment, and a doorprize. Please look in O-Beat for the announcement and details. Programs were set for the next three months:

November- Bill Sheffield, ARRL Section Manager.

December- Christmas party.

January- Homebrew nite.

Discussion of the revised by-laws and membership lists was next. Greater availability to the membership was noted and these items will be available at upcoming general meetings.

A SWAPFEST chairman is needed to head a committee to assess past success and suggest/implement any needed improvements for this year. It was moved, seconded, and approved to update the Masthead and membership application in O-Beat. Discussion of attempts to upgrade the ads also occurred. Copies to be printed will remain at 300. Adding certain new features was also discussed.

There being no further business, the meeting was adjourned at 8:26 pm. Rosie then provided refreshments of fresh, hot apple pie and ice cream.

Respectfully submitted, Mark-N0EPF

1934 Official

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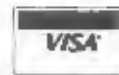
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"THE VIEW FROM THE PEAK"

by George Hinds, N8CIX/0

CELLULAR PHONES AND HAM RADIO...

From where we view a towering Pikes Peak here in Woodland Park, we now also see another towering sight -- a U.S. West cellular radio site tower on Gold Hill just west of the intersection of Highways 24 and 67. At about 9,000 ASL, it should provide coverage in this area of Teller County where today there is but scattered, spotty cellular service.

In my opinion, mobile cellular phones, plus the soon-to-be-on-the-scene digital audio (completely private) cellular phone service and the import of the technology already available providing "personal phones" in the U.K. will affect amateur radio in more ways than one. It is already changing one aspect: the relative value of ham radio mobiles as a reporting tool of highway emergencies. Now that so many citizens have mobile cellular phones, they have taken over reporting accidents, motorists in trouble, weather and road conditions, plus other public service information to police, fire, and "911" up and down the Front Range. Coincidentally, they also serve as unofficial roving reporters for TV, radio and the press.

Much of what they are doing now is precisely what we as amateur radio operators have been doing for years as a valued but too often unrecognized public service. The same can be said of CB'ers in REACT and other organized CB emergency groups. But the CB'ers on Ch. 9, and the hams on repeaters, are now but a drop in the bucket to the thousands of ordinary citizens hereabouts with cellular phone capability. While the number of active CB'ers to staff channel 9, and the number of amateurs operating VHF/UHF mobile, appears to be steadily declining from a few years ago, the number of motorists with cellular phones who are in position and ready, even anxious, to report accidents and incidents via "911" or direct grows at a fantastic pace.

Turning to another consequence arising from growing cellular phone usage... think about spectrum availability... Cellular phone service is a multi-billion dollar business and growing. This constant expansion will call for an increasing amount of spectrum. Where will the FCC find that spectrum? Who has the money to buy the regulators? The White House and Congress run the FCC. And guess who has the money to buy "buyable" politicians? Certainly not amateur radio operators. The cellular service industry has billions of \$\$\$ to spend for radio spectrum; look for example at how just one big-money outfit was able to get their hooks in the amateur 220 MHz band. It was only a few months ago that talk out of the White House was of selling off sections of the radio spectrum to the highest bidder, remember? Well, the bids in \$\$\$ from cel-

lular giants will only get higher --- and the pressure by commercial interests to seize more of the [amateur radio] spectrum will mount.

How powerful a lobby is amateur radio to Congress? It wasn't powerful enough to stop UPS from grabbing a slot on 220; do you expect it will stop cellular interests from grabbing bits and pieces of other amateur spectrum? With no money and only very little voting power, what do you think? 73 -

TRIVIA RETURNS!!!

Guess what year this ad appeared in QST and win \$5 in cash!

First correct entry MAILED to:
0-Beat Editor
% Ron Deutsch
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In case of multiple winning entries received the same day winner will be drawn at the next club meeting.

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Anyone with an owners manual or schematic for a Midland 13-505 2-mtr mobile transceiver please call NOHRD, Will 471-8527.

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FOR SALE: Bird Termaline Model 82A 500 Watt dummy load, \$75 Ron NK0P 593-8352

TOWER ORDINANCE UPDATE

The next hurdle for the El Paso county Tower Ordinance is set for December 13, 1990. Details will be announced at the December club meeting and in the December 0-Beat. POC is Hal, W0MXY.

PPRAA CHRISTMAS PARTY

DECEMBER 12, 1990
6PM--Dinner with short meeting to follow.

ELKS LODGE 3400 North Nevada Ave.

Roast Beef and Turkey plus all the trimmings!!

Entertainment by:
The Czechoslovak Dancers

\$10 per person in advance tax and tip included!

Contact any PPRAA board member or call Renee at 591-6438 or Rosie at 471-9965.

Cash bar starts at 5PM.

Raffle Prize:
AEA-PK-88 Packet controller!

Note: No smoking will be permitted in the dining room.



QST QST QST

Remember the frequency list we published in the last two issues to 0-Beat?? N8CIX/0 has offered to try to keep them up to date and accurate. He requests your help. If you know of any corrections, deletions, or additions please contact N8CIX/0 or sent them to: **0-Beat Editor**

% Ron Deutsch
4305 Ridgeland Drive
Colorado Springs, CO. 80916

Nicad Charger

A Voltage- and Current-Limited Nicad Battery Charger

by Joe Dickinson, WT0C

(See figure 1 for the schematic diagram)

Most hams these days are well acquainted with the advantages and convenience of nicad batteries. Properly cared for, good quality nicad cells can be good for many hundreds of charge/discharge cycles. Unfortunately, many nicads never reach this potential because of improper charging techniques.

Charging circuits that provide a constant current work well at the beginning of a charging cycle, but may damage a cell at the end of the cycle if the voltage rises to an excessive value. Constant voltage charging may result in the reverse: damage can occur at the beginning of a charging cycle, when current may be excessive. The correct solution is a combination of the two methods.

I learned this the hard way when I began using nicads regularly in amateur radio gear and handheld calculators. At that time, I used the wall chargers commonly supplied by the equipment's manufacturers. These simple chargers were usually the constant current type and typically destroyed the nicads after about 100 charging cycles. Replacing battery packs is expensive, so I decided there had to be a better way.

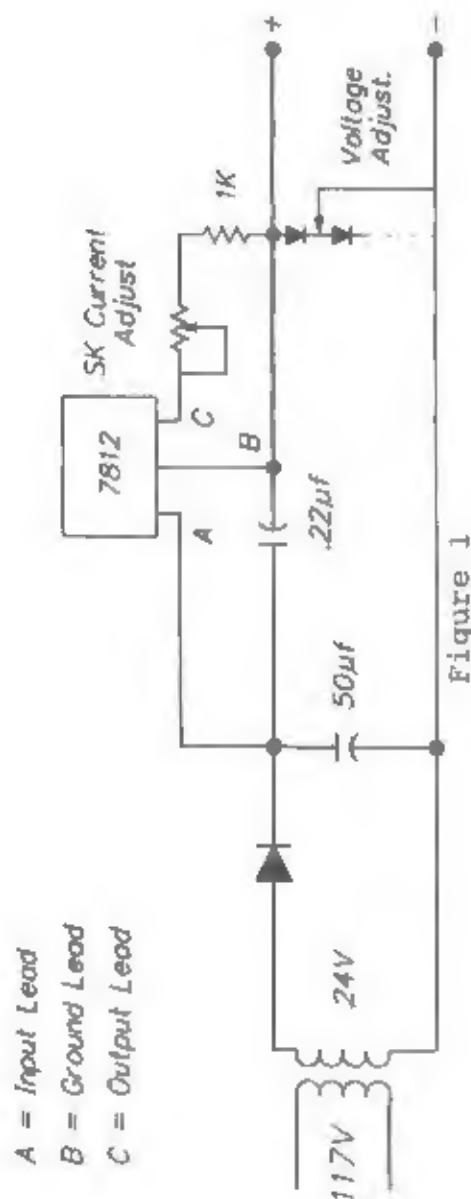
I read the available literature and combined what I thought were the best ideas into the circuit described here. My charger uses a minimal number of components, is easy to build, and can accommodate almost any commonly-used nicad battery pack. The heart of the circuit is a 7812 positive regulator chip in a constant current configuration. The 5K pot allows variable current limiting up to about 100 ma. Voltage regulation is achieved by a string of rectifier diodes across the output. It is based on the fact that a forward-biased diode won't conduct until about 0.7 volts DC is applied. A number of diodes can be connected together to provide voltage regulation at any level.

I set a current limit of 10% of my battery's full-charge voltage. The idea is to have a charging current of the full 0.1C when the battery is fully discharged, decreasing to about 5 ma at full charge. You'll probably have to experiment with the voltage limit by adding or removing diodes to/from the string to

achieve this.

This circuit provides a very safe, conservative way to charge nicads. I've used it with my TR-2400's battery packs successfully for about five years. I constructed these packs from used nicad cells I picked up at a hamfest, so I don't know how many charging cycles they had gone through or how well they had been treated before I got them. Since then, though, I have run the packs through 300 - 400 cycles and they are still going strong. Recently, I modified the charger to accommodate the PB-6 packs that power Mimi's TH-25AT, and this works well too. I hope you find this charger as useful as I do.

Joe WT0C



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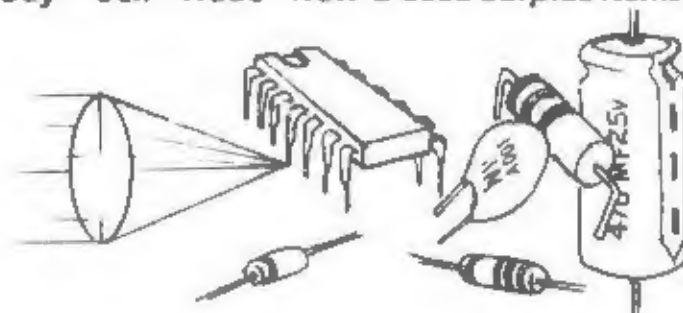
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0300	11830	RADIO BAGHDAD
0300-0400	9445	VOICE OF TURKEY
0530-0600	15435	UNITED ARAB EMIR
0600-0700	13655	RADIO AMMAN JOR.
0700-0800		
0900-1000	same as 0600-0700	
1130-1200	7190	VOICE OF IRAN
1200-1220	7190	REPUBLIC OF IRAN
1200-1400	13655	RADIO AMMAN JOR.
1500-1800		
1800-1900	9560	• • •
1800-1900	13610	RADIO KUWAIT
1830-1900	9705	SAUDI ARABIA
1900-2000	9560	KUWAIT 13610
1900-2000	9022	RADIO IRAN
2000-2100	13660	RADIO IRAN
2050-2100	12085	RADIO DAMASCUS
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2300	9600	UNITED ARAB
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HERE ARE NEW ELEMENT SETS FOR AMATEUR SATELLITES.

Name: MIR, ID: 16609, Epoch: 90296.69113258,
Incl: 51.6115, RAAN: 43.0151, Ecce: .0032664,
ARGP: 172.2722, Me An: 187.8428, M Mot:
15.58301653, Drag: .00051186, Orbit: 268170.

Name: OSCAR 13, ID: 19216, Epoch:
90285.55558503, Incl: 56.9677, RAAN: 131.3556,
Ecce: .7041877, ARGP: 237.6838, ME AN: 35.4920,
M MOT: 2.09702865, DRAG: .000099999, ORBIT:
17860.

NAME: OSCAR 14, ID: 20437, EPOCH:
90296.19836864, INCL: 98.6914, RAAN: 11.58784,
ECCE: .0010894, ARGP: 136.6567, ME AN:
223.5518, M MOT: 14.28760361, DRAG: .00027791,
ORBIT: 39141.

NAME: OSCAR 15, ID: 20438, EPOCH:
90296.66705029, INCL: 98.6923, RAAN: 12.3005,
ECCE: .0010611, ARGP: 135.2105, ME AN:
224.9948, M MOT: 14.28463624, DRAG: .00023720,
ORBIT: 39205.

NAME: OSCAR 16, ID: 20439, EPOCH:
90297.08928278, INCL: 98.6960, RAAN: 12.9482,
ECCE: .0012145, ARGP: 135.3102, ME AN:
224.9061, M MOT: 14.28863195, DRAG: .00030061,
ORBIT: 39274.

NAME: OSCAR 17, ID: 20440, EPOCH:
90297.08090620, INCL: 98.6957, RAAN: 12.9593,
ECCE: .0012374, ARGP: 135.4572, ME AN:
224.7606, M MOT: 14.28918087, DRAG: .00032584,
ORBIT: 39275.

NAME: OSCAR 18, ID: 20441, EPOCH:
90296.99172509, INCL: 98.6960, RAAN: 12.9046,
ECCE: .0012991, ARGP: 136.3672, ME AN:
223.8541, M MOT: 14.29002047, DRAG: .00028201,
ORBIT: 39267.

NAME: OSCAR 19, ID: 20442, EPOCH:
90296.97845863, INCL: 98.6942, RAAN: 12.9192,
ECCE: .0013221, ARGP: 135.9939, ME AN:
224.2302, M MOT: 14.29073917, DRAG: .00032653,
ORBIT: 39262.

This will be the last set of elements I can get as my
source no longer works in the mountain. I hope they
have been helpful.

73's...Rick, WB7THT

ARES DIST. 14

EL PASO & TELLER COUNTIES
NOVEMBER 1990

Most of you already know of the "S.E.T" (Simulated Emergency Test) held on Oct. 20th. While this exercise mostly concerned the north central part of the state, there was HF activity state wide. We didn't know ahead of time where the simulated crash site would be, so we did a call up for Dist. 14. If any of you didn't get a call, it's probably because we printed the files wrong, but it wouldn't hurt to check with us.

It looks like the S.E.T was a success but we'll know more after the critique. We will have a small exercise with the C.A.P. and Teller Co. S&R on Nov. 10 (alt. Nov. 17). This will also involve St. Francis and maybe other hospitals so find your pigtales, adapters and keep your batteries charged. The CAP & St. Francis have an agreement whereby any medical needs are handled thru that hospital. This partnership uses the name "PIKES PEAK MED-COM".

The CAP repeater on Cheyenne Mtn. does not reach very far to the west, so the use of ham radio is very important to the operation. Naturally ARES will support this effort. Anytime we hear that the CAP is on a mission or we hear "MED-COM", we should anticipate sending someone to St. Francis Emergency Room. The ant. should be ready real soon. The goal is to get the emergency room Dr. in as direct contact as possible with the para-med on the scene, even if the Dr. has to come outside to the Amateur's vehicle. We would like to distribute a call up roster to all Dist. 14 members. Any suggestions on how it should be formatted and distributed would be appreciated.

73 John / NOKIC

DIST. 14 E.C. MIKE STANSBERRY KOTER
636-1290 590-2317

TELLER AEC BUD THOMPSON NOAA
689-2983

EL PASO AEC JOHN CHAPMAN NOKIC
635-1604 590-2317

SEV.WX AEC DOUG PARIS N4TGO
495-4908

PACKET AEC JEFF BOYES NOJLH
591-6438

ARES NETS:

DIST. 14 TUES 7:00 PM (local time) 146.37/97
PPFMA RPTR COLO. HF SUN 8:00 AM 3928
kHz ALT. 7240 kHz

FT. RANGE SUN 8:30 AM " " 146.34/94
DENVER RPTR

PACKET @ WB0YNS or NOKIC-3

Dreams can come true!

MIKE ANDERSON, WB0LEY

Many years ago as a teenager (I was one once!) I was given a fictitious book about Amateur Radio (sure sounded exciting). A few years passed and while I was attending high school in Colorado, I met my first "elmer."

Ron Seats, K0LZD, was the electronics instructor at school and through his tireless efforts and the help of Rosie Lewis, WA0MNL, I became WN0EQM in May 1971.

There just didn't seem to be enough hours in a day to make contacts. One evening I was chatting in CW (it's all Novices had then, including crystal control, no VFOs) with my friend David Hamula, WN0FHQ, and I fell asleep on the key. Dave had to call my mother on the phone to come to the shack and wake me up so I'd stop transmitting a dead carrier.

No one ever told me how to properly tune up a transmitter, so with no manual I just peaked up everything and ... BOOM! No more filter capacitors! I spent my Novice internship with a fine Amateur club, the Pikes Peak Radio Amateur Association of Colorado Springs, CO.

Not being all that bright with theory, but very good at CW, taking the General exams (the old 50 question test) in Denver was not a festive event. Five written exams had come and gone when WN0EQM expired. I was bummed out! Depressed! Fortunately with Article 97.79D, I was still able to ham in a fashion.

Forty-five days after 'EQM became history (attempt number six) I finally passed the General and in August 1973 WB0LEY was born.

A year and eight months in the Navy (four at Great Lakes, IL) and four exams later, WB0LEY changed from General to Advanced. The license caught up with me in the Philippine

Islands at the moment my ship was pulling out to sea.

After doing four years in "Uncle Sam's Canoe Club," I returned to Colorado to attend college at the University of Southern Colorado with my long-time friend Martin Roe, WB0JNV (Amateur buddies since high school). I then set forth on a journey to scale Amateur Radio's highest mountain ... the Amateur Extra!

In the passage of time, I married my XYL Rhoda, formerly KN0YFP. She's now KB2BZY and is a Technician

working on General. It was a funny coincidence — her license expires on my Navy retirement date (wonder if that means something?).

After 10 years and 10 exams, in November 1987 I finally made it to the summit of Amateur Radio. I passed the Extra!

So in the course of 18 years, with 22 Amateur exams, I became an Amateur and made it to the top and I have an Amateur XYL, very rare vintage too! She doesn't mind my getting that new rig. Don't you wish you had one, too (the Amateur wife that is)?

So it seems apparent to me that dreams can come true! □

W1AW Schedule

October 28, 1990—April 1, 1991

MTWThFSSn = Days of Week

Dy = Daily

W1AW code practice and bulletin transmissions are sent on the following schedule:

UTC	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 0300, 1400; TThS: 0000; TThSSn: 2100; Sn: 0300 MWF: 0000, 2100; TTh: 0300, 1400; S: 0300; Sn: 0000 Dy: 0100, 0400, 2200; MTWThF: 1500 Dy: 0200, 0500, 2300; MTWThF: 1600 Dy: 0230, 0530
EST	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 9 AM, 7 PM; TThSSn: 4 PM, 10 PM MWF: 4 PM, 10 PM; TTh: 9 AM; TThSSn: 7 PM Dy: 5 PM, 8 PM, 11 PM; MTWThF: 10 AM Dy: 6 PM, 9 PM, 12 PM; MTWThF: 11 AM Dy: 9:30 PM, 12:30 AM
CST	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 8 AM, 6 PM; TThSSn: 3 PM, 9 PM MWF: 3 PM, 9 PM; TTh: 8 AM; TThSSn: 6 PM Dy: 4 PM, 7 PM, 10 PM; MTWThF: 9 AM Dy: 5 PM, 8 PM, 11 PM; MTWThF: 10 AM Dy: 8:30 PM, 11:30 PM
MST	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 7 AM, 5 PM; TThSSn: 2 PM, 8 PM MWF: 2 PM, 8 PM; TTh: 7 AM; TThSSn: 5 PM Dy: 3 PM, 6 PM, 9 PM; MTWThF: 8 AM Dy: 4 PM, 7 PM, 10 PM; MTWThF: 9 AM Dy: 7:30 PM, 10:30 PM
PST	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 6 AM, 4 PM; TThSSn: 1 PM, 7 PM MWF: 1 PM, 7 PM; TTh: 6 AM; TThSSn: 4 PM Dy: 2 PM, 5 PM, 8 PM; MTWThF: 7 AM Dy: 3 PM, 6 PM, 9 PM; MTWThF: 8 AM Dy: 6:30 PM, 9:30 PM

Code practice, Qualifying Run and CW bulletin frequencies: 1.818*, 3.5815, 7.0475, 14.0475, 21.0775, 28.0775, 147.555* MHz.

Teleprinter bulletin frequencies: 3.625, 7.095, 14.095, 21.095, 28.095, 147.555 MHz.

Voice bulletin frequencies: 1.89, 3.99, 7.29, 14.29, 21.39, 28.59, 50.19, 147.555 MHz.

Slow code practice is sent at 5, 7½, 10, 13 and 15 WPM.

Fast code practice is sent at 35, 30, 25, 20, 15, 13 and 10 WPM.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds. For example, "Text is from September 1990 QST, pages 16 and 79," indicates that the main text is from the article on page 16 and the mixed number/letter groups at the end of each speed are from the contest scores on page 79.

On Fridays, UTC, a DX bulletin replaces the regular bulletin transmissions.

On Tuesdays and Saturdays at 2330 UTC, Keplerian Elements for active amateur satellites will be sent on the regular teleprinter frequencies.

Teleprinter bulletins are 45.45-baud Baudot, 110-baud ASCII and 100-baud AMTOR, FEC mode.

CW bulletins are sent at 16 WPM.

W1AW is open for visitors Monday through Friday from 8 AM to 1 AM EST and on Saturday and Sunday from 3:30 PM to 1 AM EST. If you desire to operate W1AW, be sure to bring a copy of your license with you.

W1AW is available for operation by visitors between 1 and 4 PM Monday through Friday.

In a communications emergency, monitor W1AW for special bulletins as follows: voice on the hour, teleprinter at 15 minutes past the hour, and CW on the half hour.

W1AW will be closed on December 24 and 25, January 1 and February 18.

*Temporarily off the air on 160 and 2 meters.





Denver, Colorado
8400 E. Iliff Avenue #9
Denver, CO 80231
(303) 745-7373
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of our 10th store.
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**KDØRW
ACØS**

**KBØADF
NIØE**

**Membership Application
PIKES PEAK RADIO AMATEUR ASSOCIATION, INC.**

P.O. Box 16521
Colorado Springs, CO 80935

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